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THE SUPERHUB PROJECT DEVELOPING MULTIMODAL MOBILITY RELATED SERVICES



19 20 May 2014

DATEX II User Forum - Prague

Experience with ITS Standards in a pan-European project

Agenda



We believe that in a great mobility project people should be protagonists.



- SUPER HUB
 INNOVATION FOR INTEGRATED
 AND ECO-SUSTAINABLE MOBILITY
 - SEVENTH FRAMEWORK PROGRAMME
- 0
- www.superhub-project.eu
- superhubproje
- www.linkedin.com/in/superhubprojec

- Introduction
- SUPERHUB & DATEX
- Data in SUPERHUB
- The future

Share real experience with using ITS Standards in a pan-Europen project

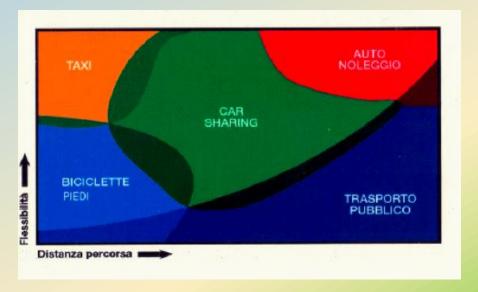
Introduction (1)



A NEW MOBILITY CONCEPT



The era of private cars is over.



Let's exploit heterogeneous and integrated transport modes!

Introduction (2)

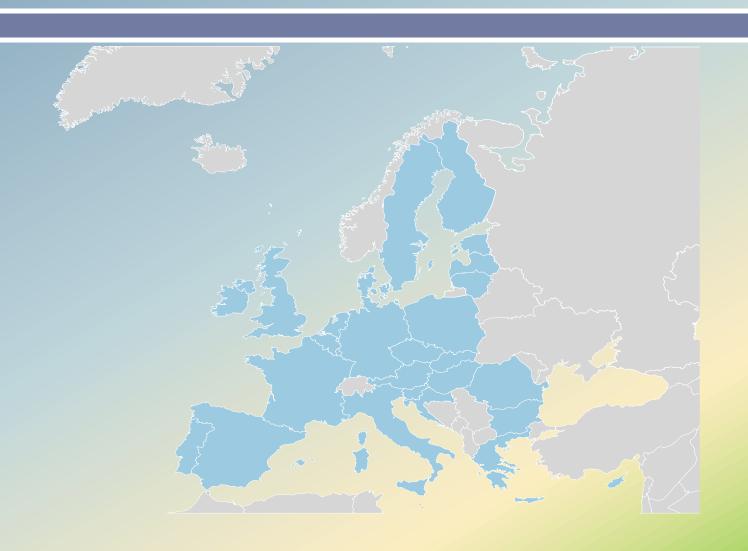


- superhub-project.eu
 - Multimodal journey planner
 - Tool for policy makers
 - Mobility services marketplace

- Jan Vlčinský, CDV
- Marco Menichetti, FLI

SUPERHUB & DATEX in Space (1)





SUPERHUB & DATEX in Space (2)



SUPERHUB

- pan-European
- 20 partners from 6 Countries (IT, SP, CZ, UK, FI, BE)

Trial cities:

- Barcelona
- Milan
- Helsinki

DATEX

- pan-European
- participants and DATEX Nodes across Europe

SUPERHUB & DATEX in Time



SUPERHUB

- 2011 start
- 2014 end
- □ 2014+ superhub.org

DATEX

- DATEX 10 years
- DATEX II EasyWay (I), EasyWay (II), ...
 - User Forum (Rome, Berlin 2010, Stockolm 2012, Prague 2014, ...)

A project turning into a long term activity.

A long term activity.

SUPERHUB & DATEX Domains



SUPERHUB

- Application
- Public transport (time tables, realtime)
- Weather&pollution
- Social network data (Twitter, Instagram, Foursquare)
- Traffic and disruptive events on roads & public transport

Wide user oriented.

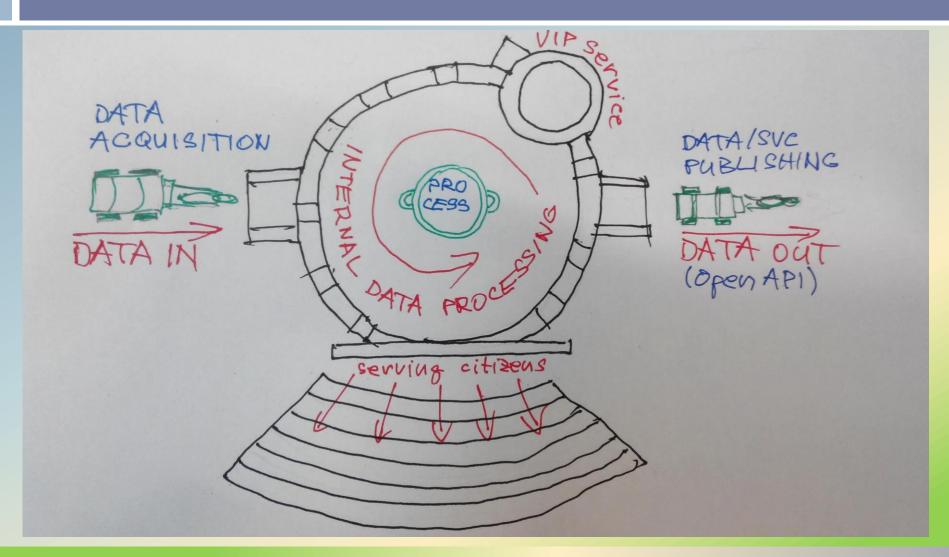
DATEX

- SW and standard for applications
- Traffic information on roads

Narrow domain focus.













Data Acquisition (2)



Data types:

- Weather, pollution
- Public Transport (timetables, real-time)
- Parking
- Vehicle sharing
- Demographic
- Maps
- Planned Events
- Social Networks

Locations:

- Barcelona
- Helsinki
- Milan
- □ (Brno)

26 Sources (see table):

- Multiple per city
- Public authorities
- Private companies







Publishing (2)



CONCEPTS

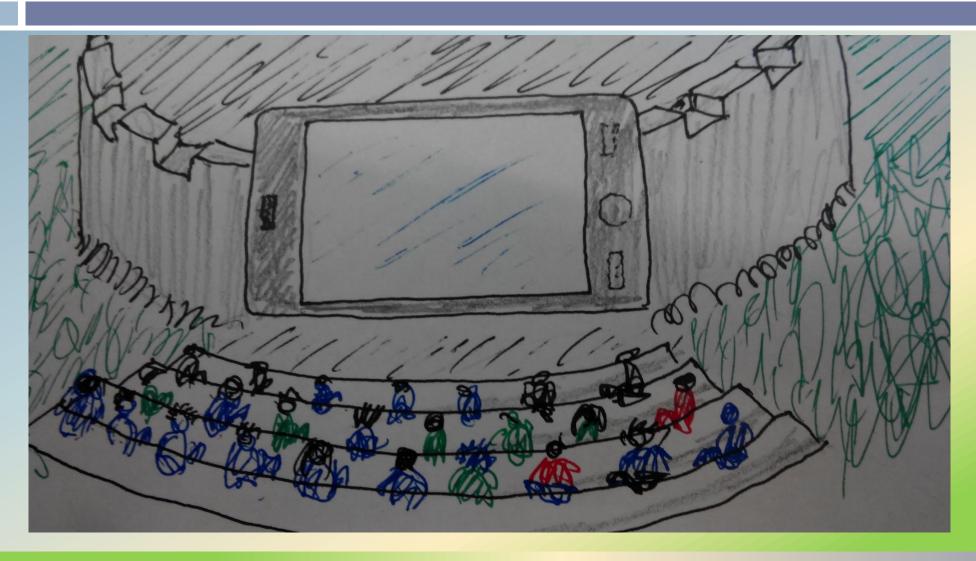
- Legal
- Technically feasible
- Standard formats
- Demanded
- Economically feasible

DATA

- Speed profile (DATEX II)
- Route planner service (?)
- Disruptive events (?)



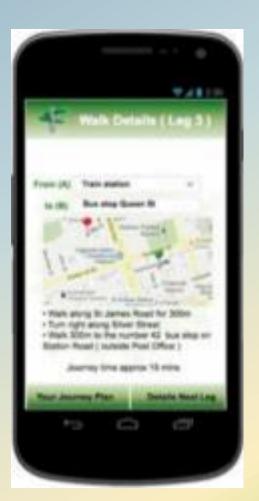












With Policy Makers











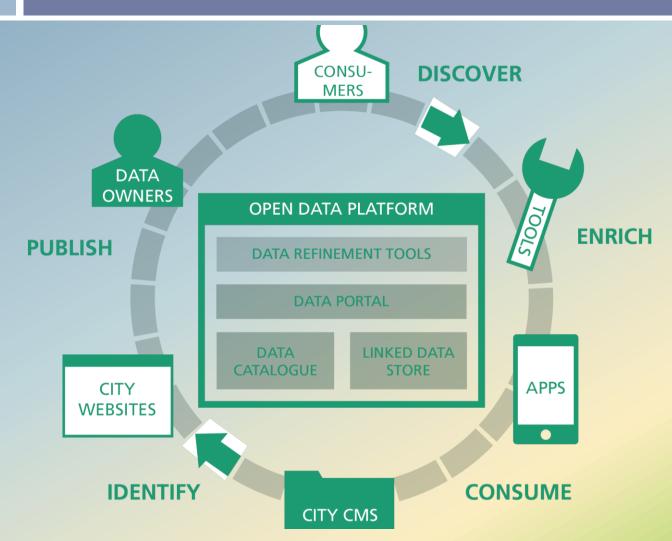
Summarizing the Experience



- Open Data in Helsinki
- DATEX not yet in cities
- GTFS adopted (not SIRI)
- Validation tools importance
- Open API
 - easy data sales
 - Open API Manifesto
 - 3scale.net







Enabling interoperability of systems/services.

Thank you!



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SUPERHUB PROJECT:

superhub-project.eu

- superhub project
- @superhub1

Monthly SUPERHUB newsletter

SUPERHUB External Data Sources

TYPE	CITY	NOTES	FORMAT
Weather	Helsinki, Milan, Barcelona	Weather data retrieved from The Weather Underground, LLC	JSON
Public Transportation	Helsinki	Public Transportation timetables and dynamic data provided by the Helsingin Seudun Liikenne-KunTayhtyma (Helsinki Regional Transport Authority)	GTFS
Public Transportation	Milan	Public Transportation timetables and dynamic data provided by the Public Transportation timetables provided by Agenzia Mobilità Ambiente e Territorio: (Mobility and Environment Agency of Milan)	GTFS
Public Transportation	Milan	Public Transportation dynamic data provided by Azienda Trasporti Milanesi (Milan Transport Authority)	GTFS
Public Transportation	Milan	Public Transportation timetables and dynamic data provided by Autoguidovie (Milan Transport Authority)	GTFS
Public Transportation	Barcelona	Public Transportation timetables and dynamic data provided by Transports Metropolitans de Barcelona	GTFS
Public Transportation	Barcelona	Public Transportation timetables provided by Generalitat Catalunya (Government of Catalonia)	GTFS
Public Transportation	Barcelona	Public Transportation timetables provided by Tramvia Metropolità, SA (TramMet)	GTFS
Public Transportation	Barcelona	Public Transportation timetables provided by TO BE DONE	
Parking	Helsinki	Parking data provided by Helsingin Seudun Liikenne-KunTayhtyma (Helsinki Regional Transport Authority) <i>TO BE CONFIRMED</i>	GTFS
Parking	Milan	Parking data provided by TO BE DONE	
Vehicle sharing	Milan	Bike sharing data retrieved from City Bikes (data from bikeMi)	JSON
Vehicle sharing	Barcelona	Bike sharing data retrieved from City Bikes (data from Bicing)	JSON
Vehicle sharing	Milan	Car sharing data retrieved from Car2Go	JSON
Pollution	Barcelona	Pollution data retrieved from Generalitat Catalunya (Government of Catalonia) using a BDIGITAL API	JSON
Demographic	Helsinki	Demographic statistical data provided by "Tilastokeskus"http://www.stat.fi/tup/tilastotietokannat/index_en.html (Finland National Office of Statistics)	several proprietary formats

Demographic	Helsinki	Demographic statistical data provided by Trafi (Finnish Transport Safety Agency)	several proprietary formats
Demographic	Helsinki	Demographic statistical data provided by Liikennevirasto (Finnish Transport Agency)	several proprietary formats
Demographic	Milan	Demographic statistical data provided by ISTAT (National Institute of Statistics in Italy)	several proprietary formats
Demographic	Milan	Demographic statistical data provided by Comune di Milano (Milan Municipality)	several proprietary formats
Demographic	Milan	Demographic statistical data provided by Automobile Club Italiano	several proprietary formats
Demographic	Milan	Demographic statistical data provided by Banca Dati dell'useo e copertura del suolo (DUSAF)	several proprietary formats
Demographic	Barcelona	Demographic statistical data provided by Generalitat Catalunya (Government of Catalonia) Idescat	several proprietary formats
Demographic	Barcelona	Demographic statistical data provided by Dirección General de Tráfico	several proprietary formats
Demographic	Barcelona	Demographic statistical data provided by Ajuntament de Barcelona (Barcelona City Council)	several proprietary formats
Planned Events	Barcelona, Helsinki,Mi lan	Planned Events: Massive events provided by Eventbrite and Last.fm	JSON